

## Bohn, Brent

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**From:** Schlosser, Paul  
**Sent:** Tuesday, November 24, 2015 2:23 PM  
**To:** Bohn, Brent  
**Subject:** RE: recent perchlorate paper (EHP)

5 min

**From:** Bohn, Brent  
**Sent:** Tuesday, November 24, 2015 2:21 PM  
**To:** Schlosser, Paul <Schlosser.Paul@epa.gov>  
**Subject:** RE: recent perchlorate paper (EHP)

Hi Paul,

Can you give me an estimate for how long it took you to search for these emails? For the FOIA cost estimate.

Thanks, Brent

**From:** Schlosser, Paul  
**Sent:** Tuesday, November 24, 2015 11:00 AM  
**To:** Bohn, Brent <[bohn.brent@epa.gov](mailto:bohn.brent@epa.gov)>  
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**From:** Schlosser, Paul  
**Sent:** Monday, November 23, 2015 12:11 PM  
**To:** 'Craig M. Steinmaus' <[craigs@berkeley.edu](mailto:craigs@berkeley.edu)>  
**Cc:** Ramasamy, Santhini <[Ramasamy.Santhini@epa.gov](mailto:Ramasamy.Santhini@epa.gov)>; Kharrazi, Marty (CDPH-GDSP <[Marty.Kharrazi@cdph.ca.gov](mailto:Marty.Kharrazi@cdph.ca.gov)>  
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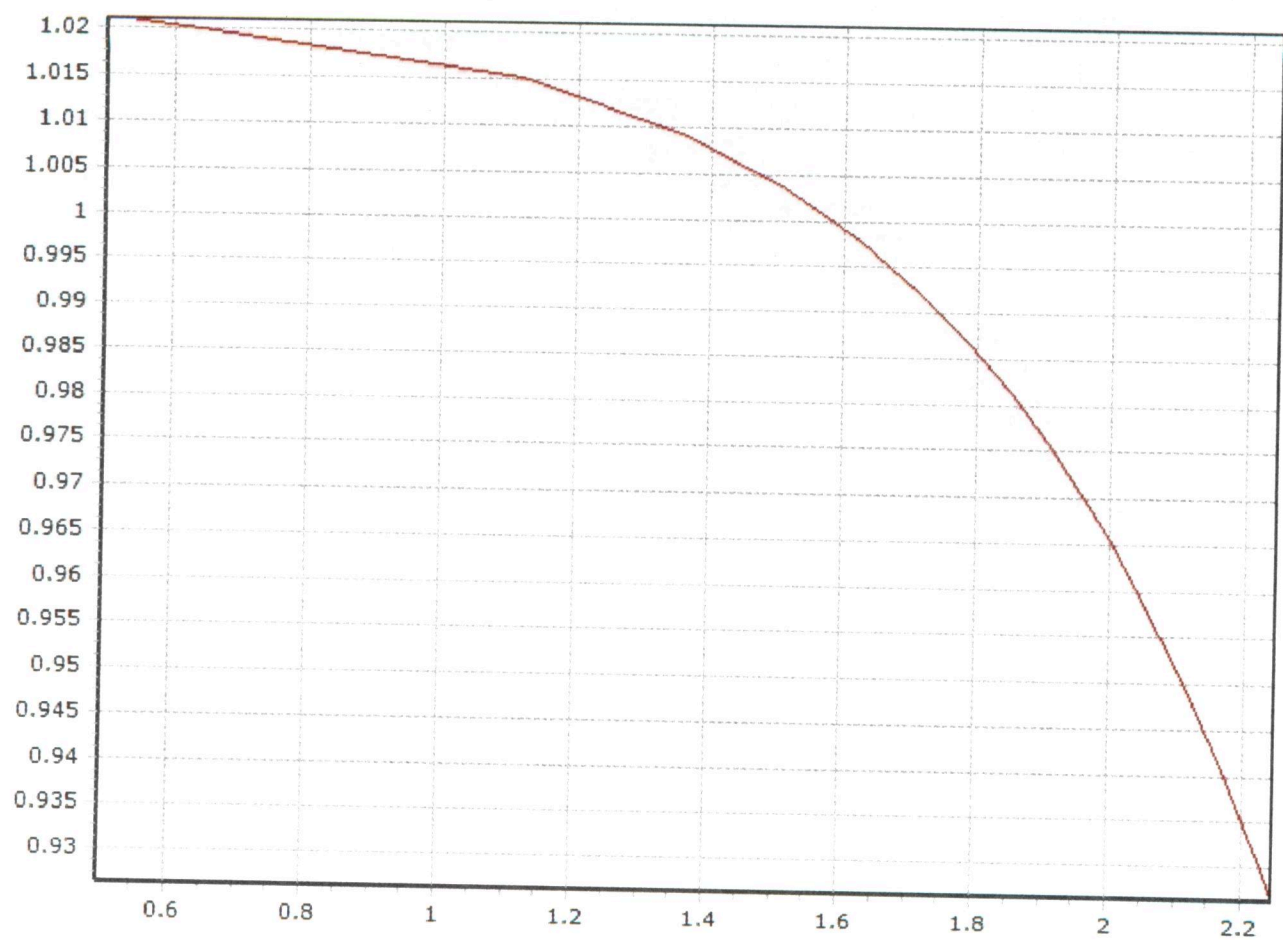
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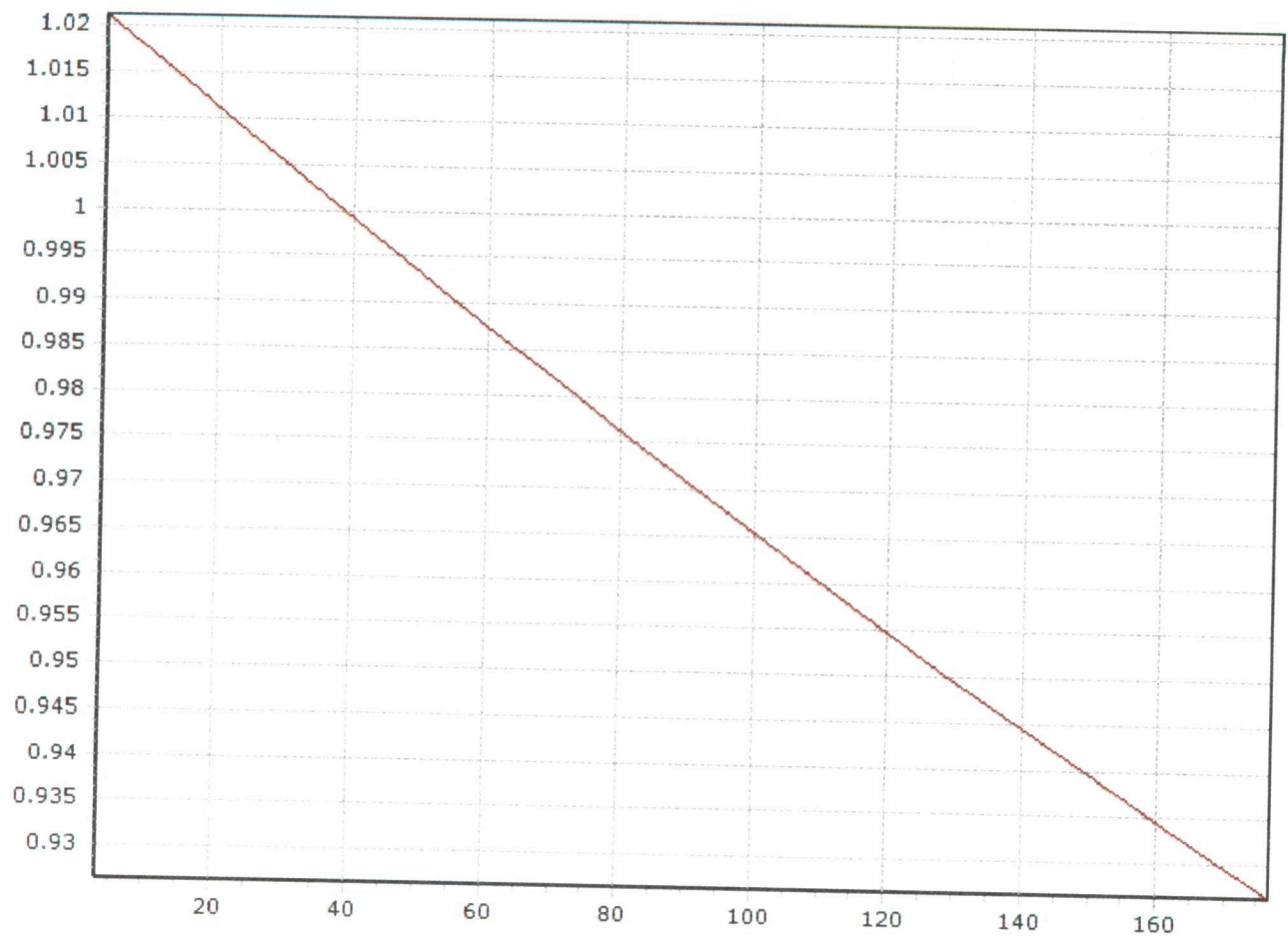
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Predicted ft4 (ng/dL) vs. log10(urinary perchlorate(ug/L))



fT4 vs. urinary perchlorate (ug/L)



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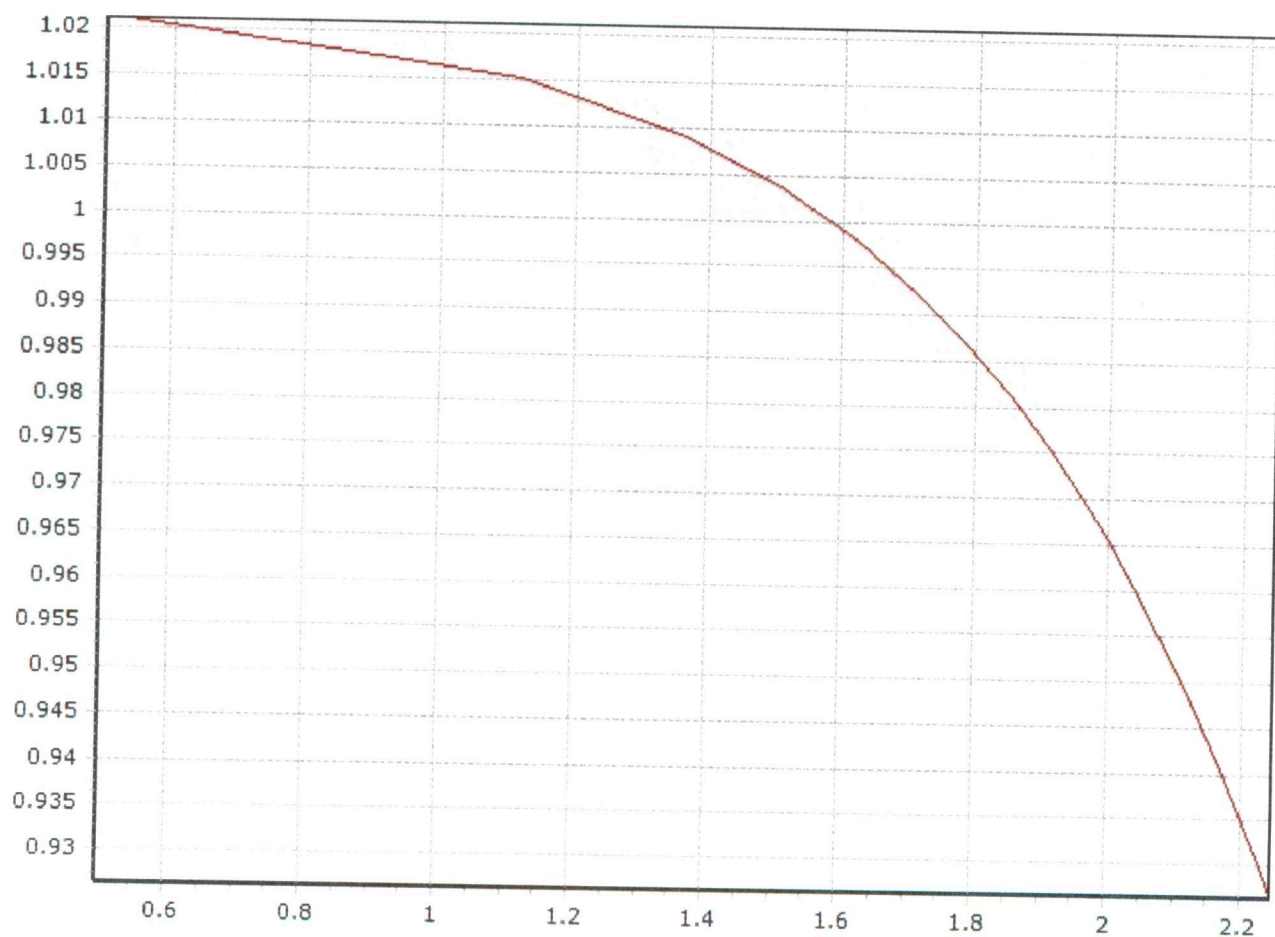
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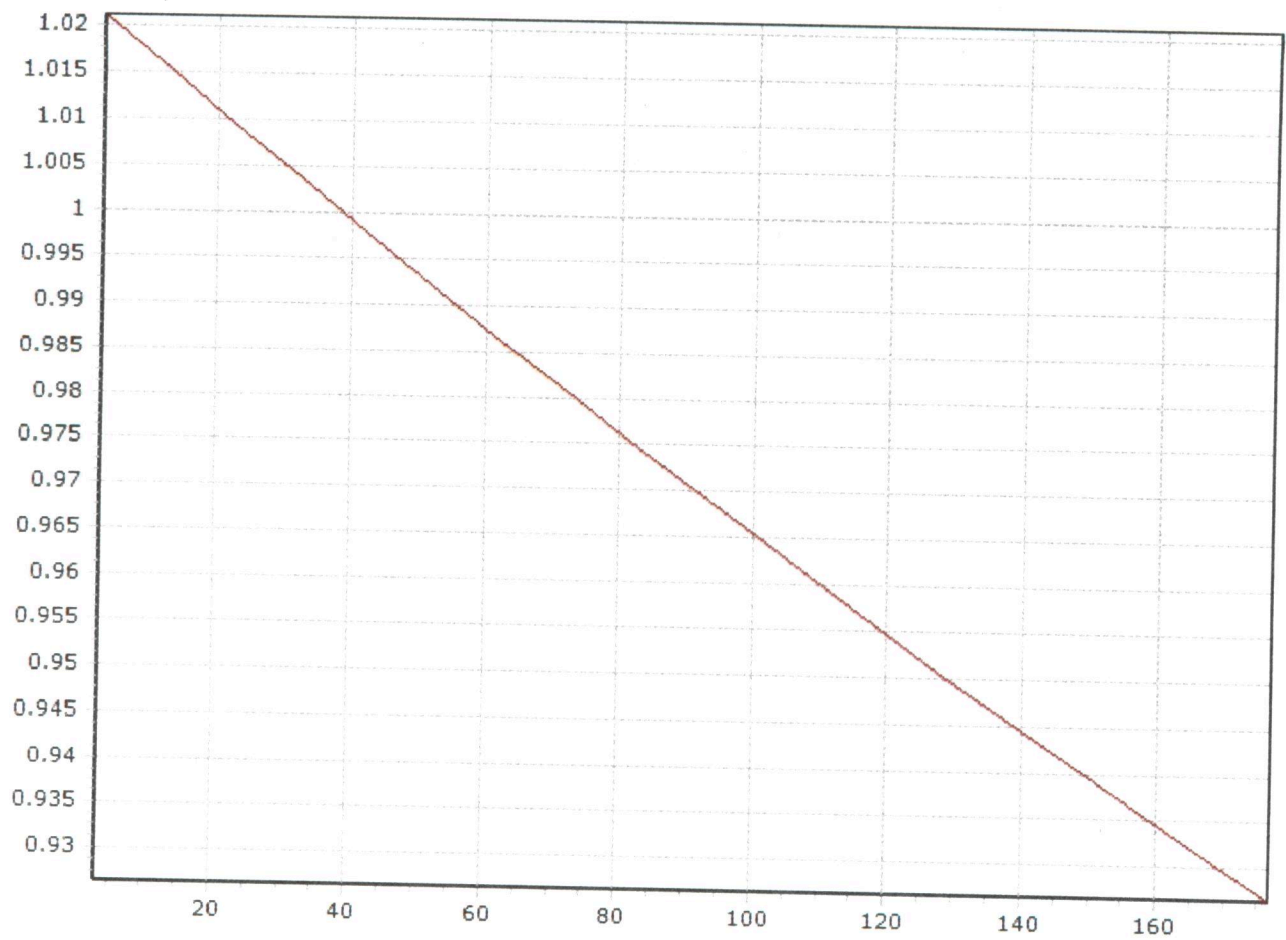
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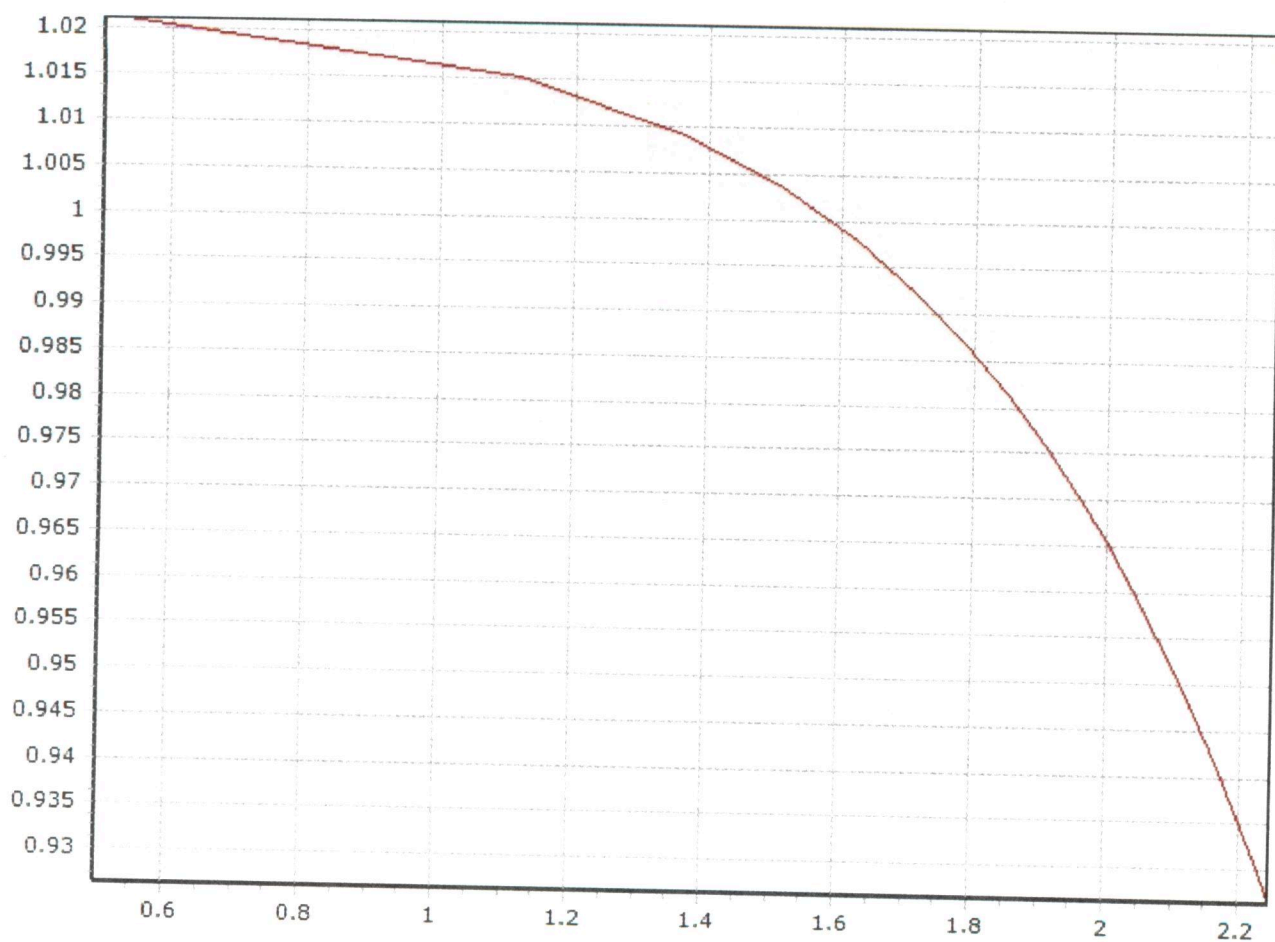
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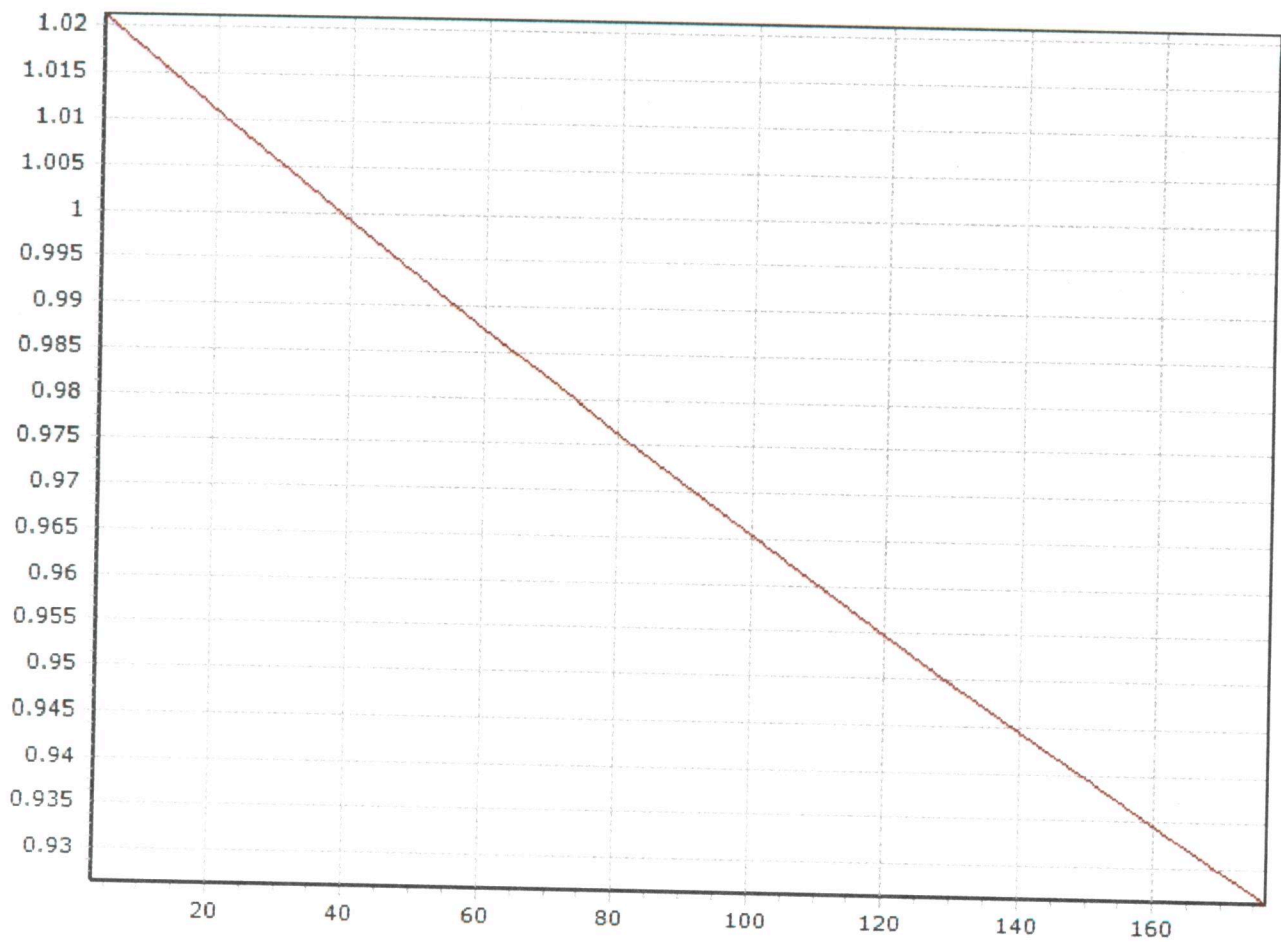
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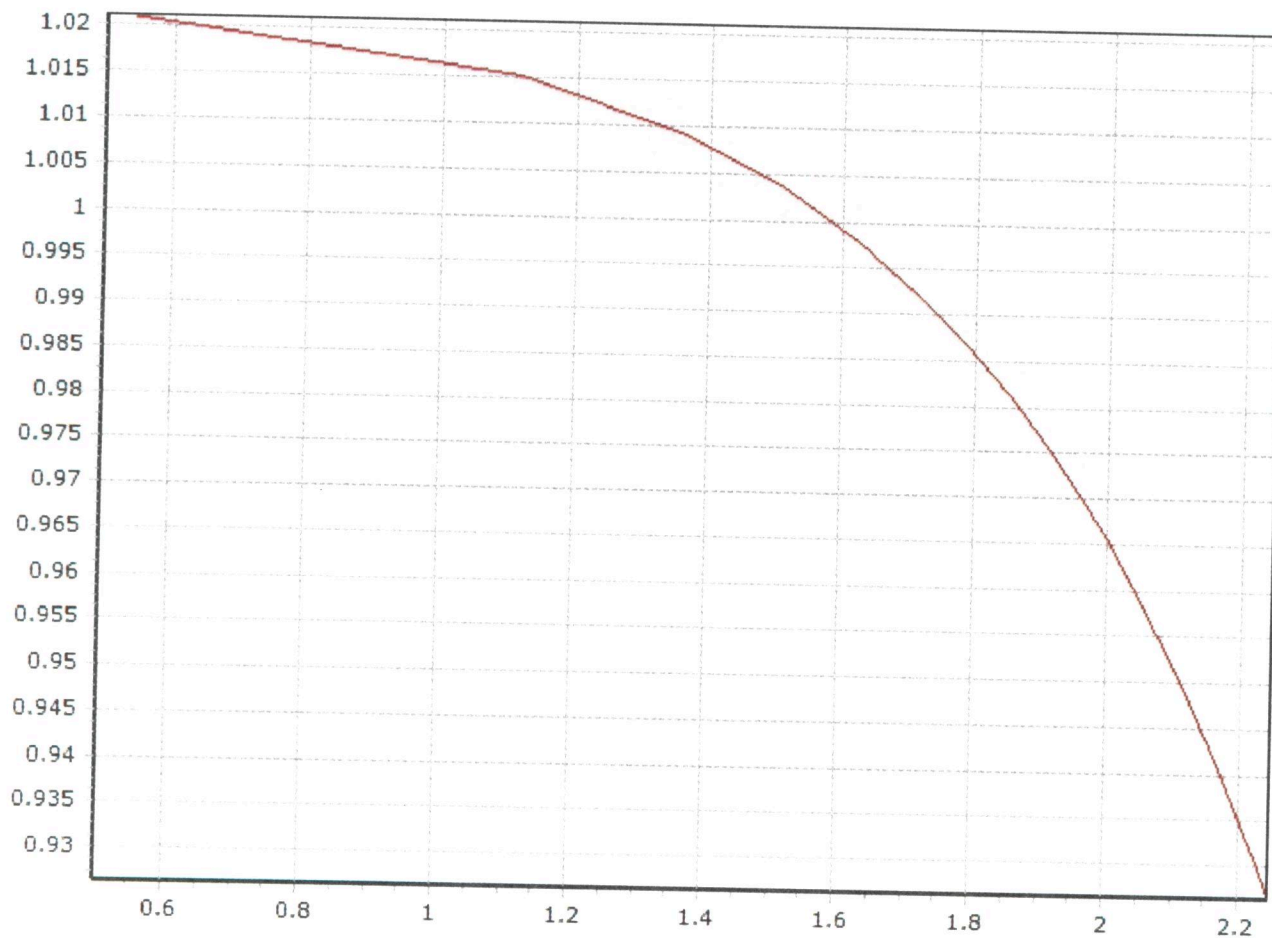
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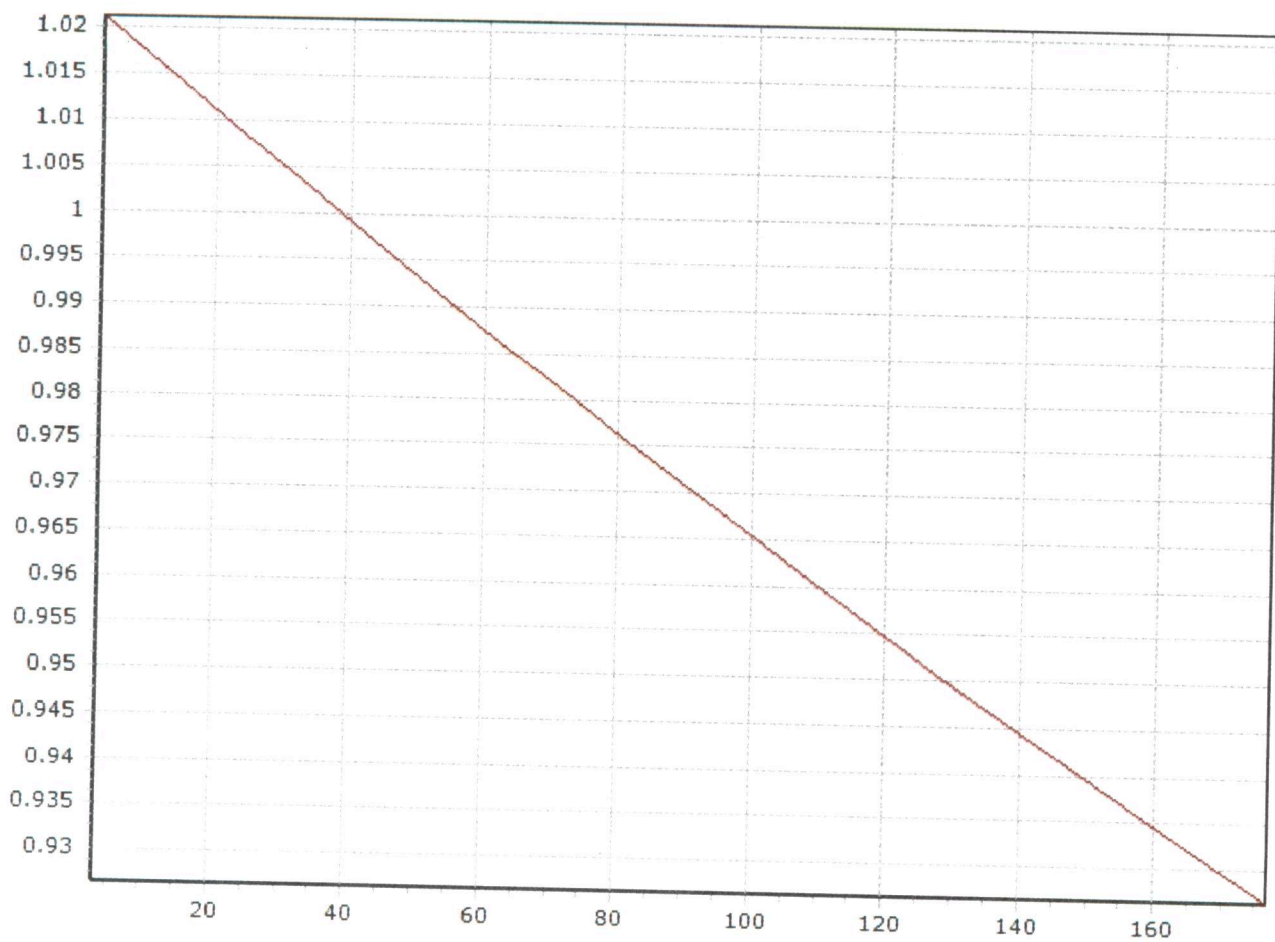
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T: [919-541-4130](tel:919-541-4130)  
F: [919-685-3330](tel:919-685-3330)  
E: [schlosser.paul@epa.gov](mailto:schlosser.paul@epa.gov)

## Bohn, Brent

---

**From:** Schlosser, Paul  
**Sent:** Tuesday, November 24, 2015 10:59 AM  
**To:** Bohn, Brent  
**Subject:** FW: recent perchlorate paper (EHP)

**From:** Schlosser, Paul  
**Sent:** Thursday, November 12, 2015 9:08 AM  
**To:** 'Craig M. Steinmaus' <craigs@berkeley.edu>  
**Subject:** RE: recent perchlorate paper (EHP)

I am mostly free Monday (except 10-11 AM, EST) and my schedule is clear on Wednesday next week.

-Paul

**From:** Craig M. Steinmaus [<mailto:craigs@berkeley.edu>]  
**Sent:** Wednesday, November 11, 2015 7:01 PM  
**To:** Schlosser, Paul <[Schlosser.Paul@epa.gov](mailto:Schlosser.Paul@epa.gov)>  
**Subject:** Re: recent perchlorate paper (EHP)

Hi Paul

Sorry I didn't reply earlier. I am free to talk almost anytime next week except for Tuesday.

Do you have any free time then?

On Wed, Nov 4, 2015 at 6:57 AM, Schlosser, Paul <[Schlosser.Paul@epa.gov](mailto:Schlosser.Paul@epa.gov)> wrote:

Hi Craig,

Sure thing! Tomorrow I could call between 1-2:30 my time, should be 10-11:30 am for you. (Have another meeting that starts at 2:30 pm.) I'm off Friday, but if that doesn't Monday and Tuesday are fairly open.

-Paul

**From:** Craig M. Steinmaus [<mailto:craigs@berkeley.edu>]  
**Sent:** Tuesday, November 03, 2015 9:33 PM  
**To:** Schlosser, Paul <[Schlosser.Paul@epa.gov](mailto:Schlosser.Paul@epa.gov)>  
**Subject:** Re: recent perchlorate paper (EHP)

Hi Paul

We should talk on the phone about this. I'm not totally sure what you are getting at, but definitely want to help any way I can. I have some time later this week or next week if you want to set up a call.

Craig

On Tue, Nov 3, 2015 at 8:31 AM, Schlosser, Paul <[Schlosser.Paul@epa.gov](mailto:Schlosser.Paul@epa.gov)> wrote:

Dr. Steinmaus,

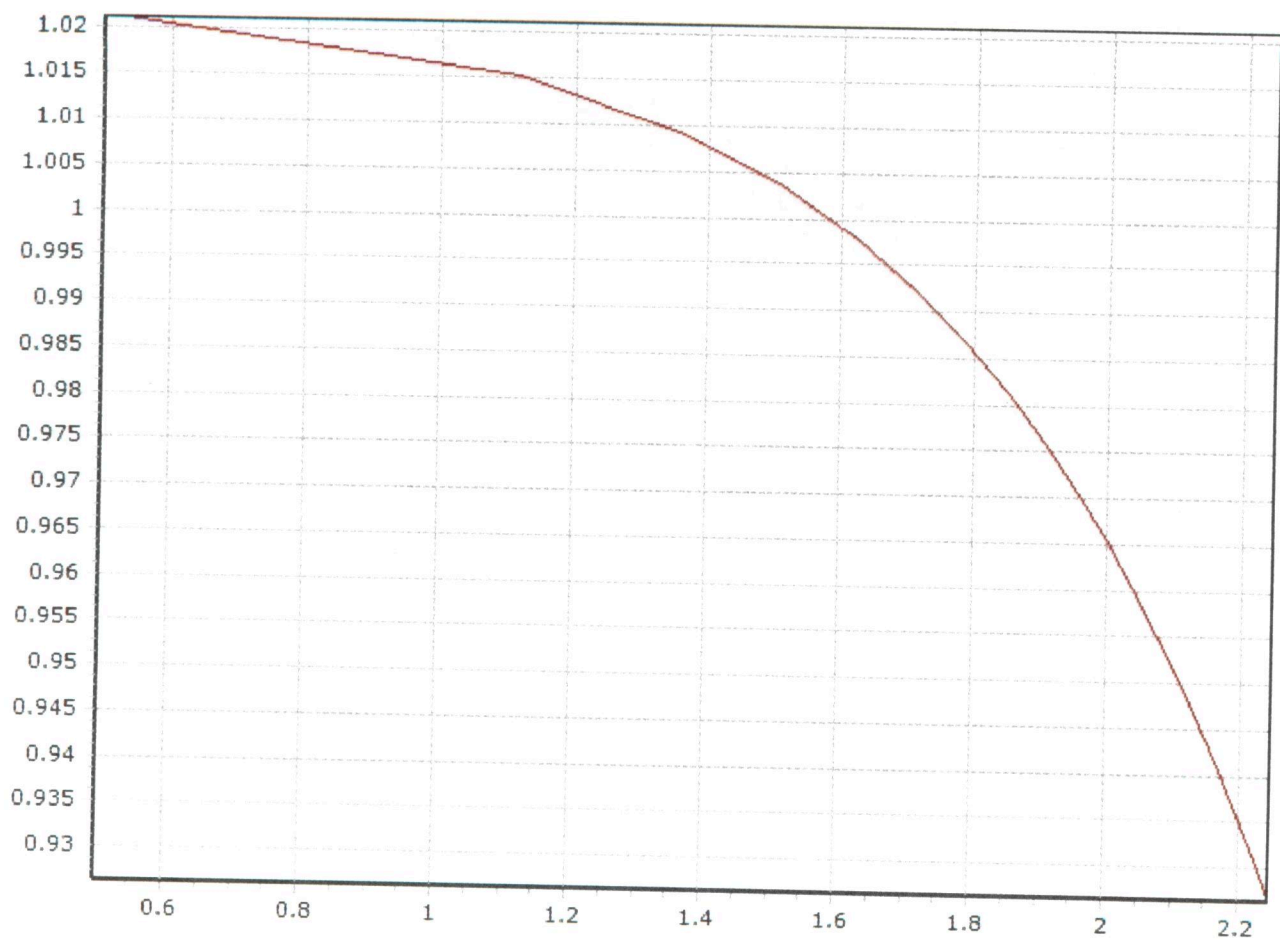
We have been working with a PBPK model for perchlorate's effects on thyroid hormones (Lumen et al., 2013) and I'm trying to compare model predictions to your results. The model actually predicts a linear relationship between perchlorate exposure (or urinary levels) and T4/fT4 levels in the range of exposures from your study. So if I try to evaluate the slope (~ regression coefficient) of T4/fT4 vs. the **\*log\*** of urinary perchlorate, the result depends on where the points/data are clustered, so it's hard to compare the results with yours. Example plots with/without the log transformation are below.

In the analysis for your paper, did you also perform regressions for urinary T4/fT4 vs. absolute urinary perchlorate – without the log transformation? If not, would it be possible to obtain that, or even the underlying data? The data need not be identified; we'd just want the set of [urinary perchlorate, T4, fT4] for each sample.

Thanks in advance,

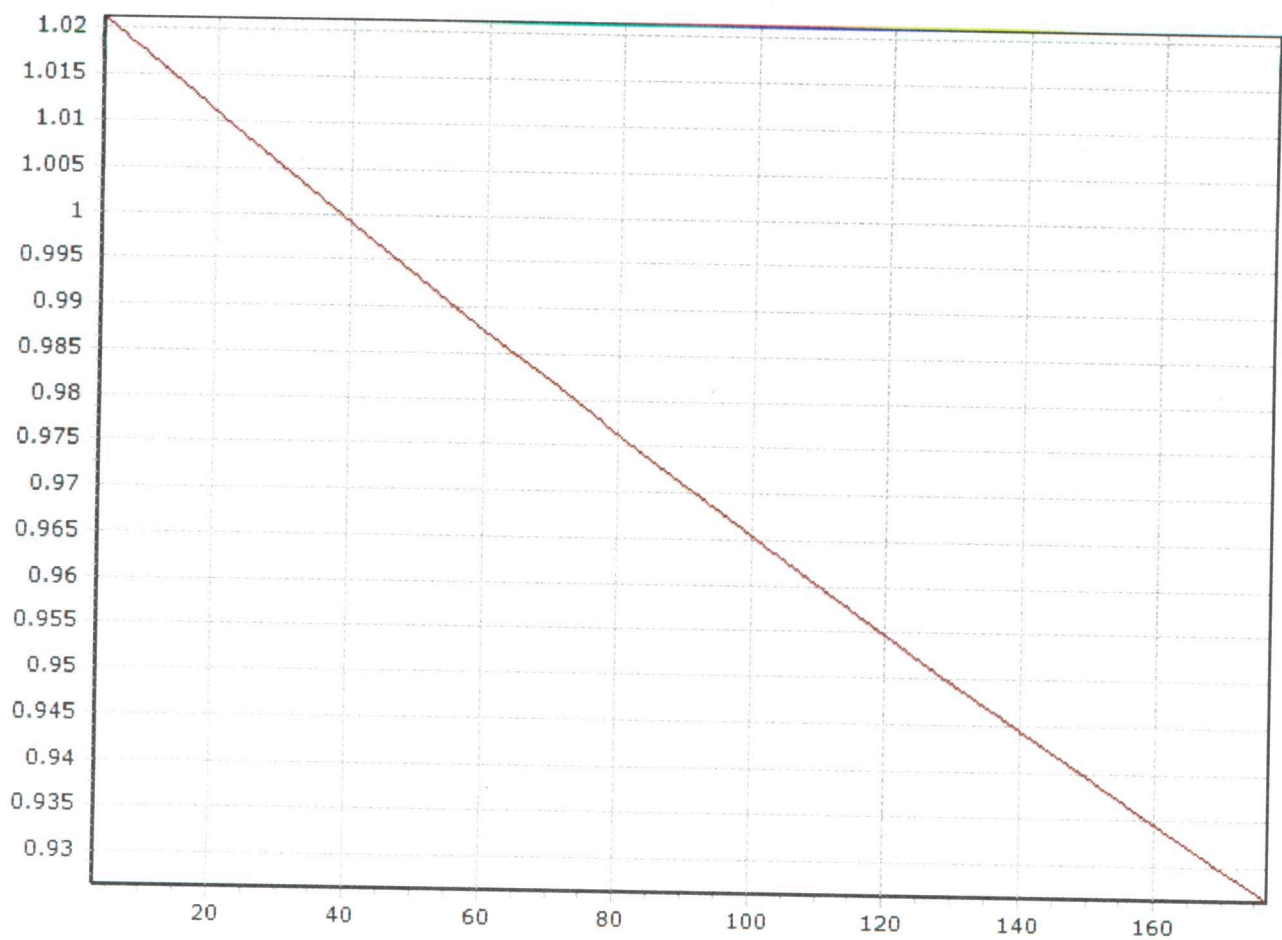
-Paul Schlosser

Predicted ft4 (ng/dL) vs. log10(urinary perchlorate(ug/L))



fT4 vs. urinary perchlorate (ug/L)





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## Bohn, Brent

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**Sent:** Tuesday, November 24, 2015 10:58 AM  
**To:** Bohn, Brent  
**Subject:** FW: recent perchlorate paper (EHP)

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**Sent:** Wednesday, November 11, 2015 7:01 PM  
**To:** Schlosser, Paul <[Schlosser.Paul@epa.gov](mailto:Schlosser.Paul@epa.gov)>  
**Subject:** Re: recent perchlorate paper (EHP)

Hi Paul

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-Paul

**From:** Craig M. Steinmaus [mailto:[craigs@berkeley.edu](mailto:craigs@berkeley.edu)]  
**Sent:** Tuesday, November 03, 2015 9:33 PM  
**To:** Schlosser, Paul <[Schlosser.Paul@epa.gov](mailto:Schlosser.Paul@epa.gov)>  
**Subject:** Re: recent perchlorate paper (EHP)

Hi Paul

We should talk on the phone about this. I'm not totally sure what you are getting at, but definitely want to help any way I can. I have some time later this week or next week if you want to set up a call.

Craig

On Tue, Nov 3, 2015 at 8:31 AM, Schlosser, Paul <[Schlosser.Paul@epa.gov](mailto:Schlosser.Paul@epa.gov)> wrote:

Dr. Steinmaus,

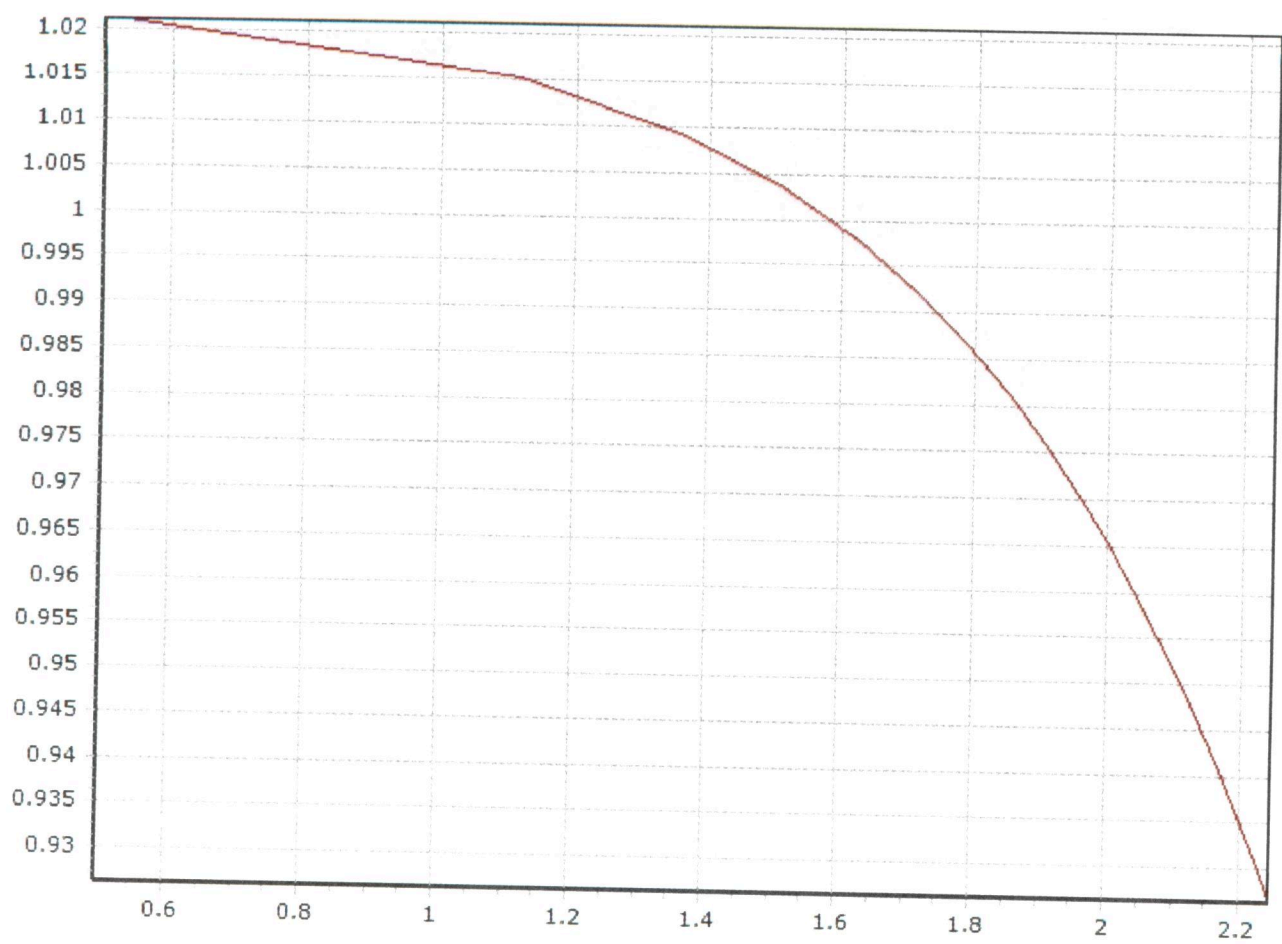
We have been working with a PBPK model for perchlorate's effects on thyroid hormones (Lumen et al., 2013) and I'm trying to compare model predictions to your results. The model actually predicts a linear relationship between perchlorate exposure (or urinary levels) and T4/fT4 levels in the range of exposures from your study. So if I try to evaluate the slope (~ regression coefficient) of T4/fT4 vs. the **\*log\*** of urinary perchlorate, the result depends on where the points/data are clustered, so it's hard to compare the results with yours. Example plots with/without the log transformation are below.

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Thanks in advance,

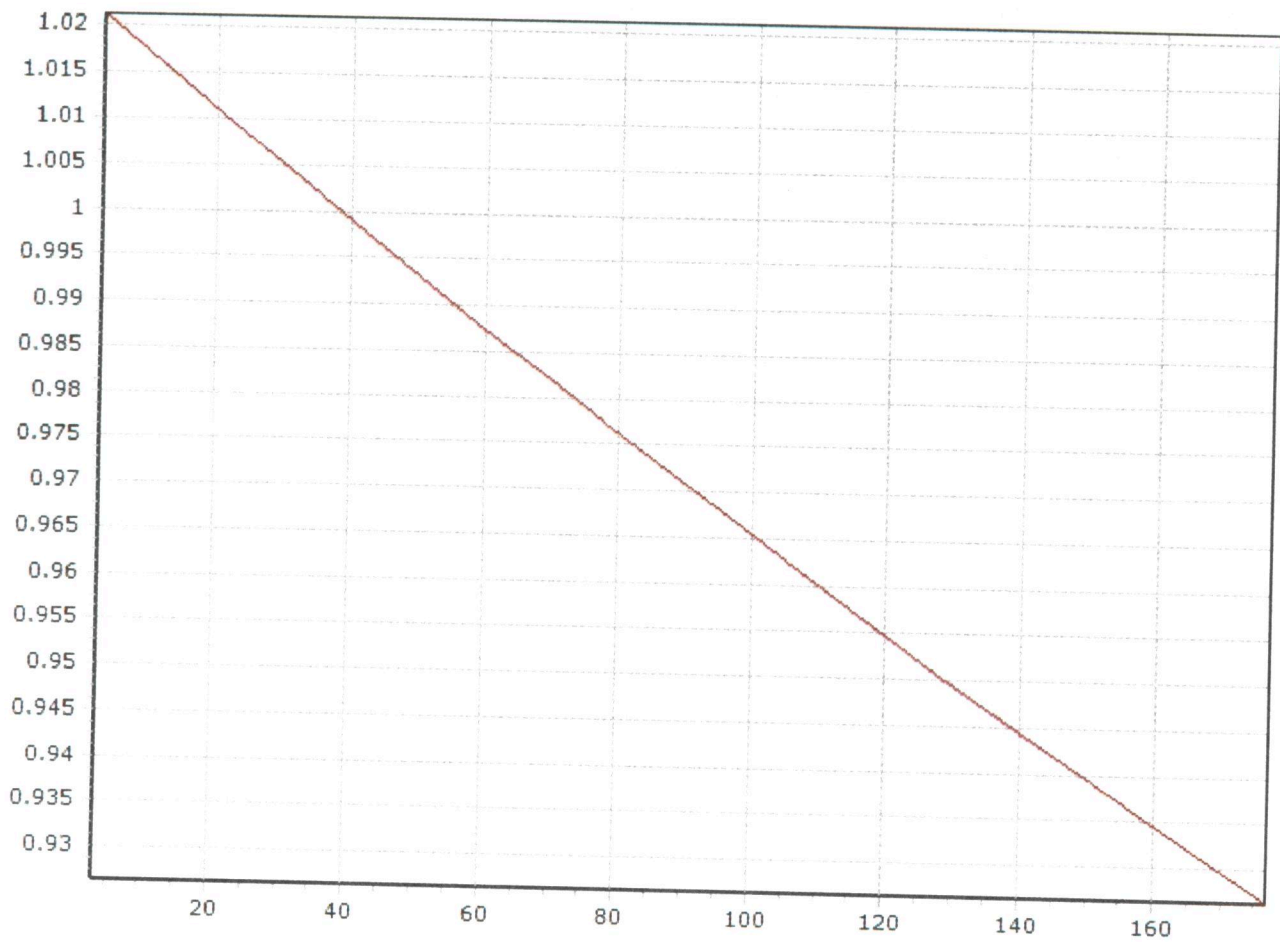
-Paul Schlosser

Predicted ft4 (ng/dL) vs. log10(urinary perchlorate(ug/L))



fT4 vs. urinary perchlorate (ug/L)





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## Bohn, Brent

---

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**Sent:** Tuesday, November 24, 2015 10:58 AM  
**To:** Bohn, Brent  
**Subject:** FW: recent perchlorate paper (EHP)

**From:** Schlosser, Paul  
**Sent:** Wednesday, November 04, 2015 9:57 AM  
**Subject:** RE: recent perchlorate paper (EHP)

Hi Craig,

Sure thing! Tomorrow I could call between 1-2:30 my time, should be 10-11:30 am for you. (Have another meeting that starts at 2:30 pm.) I'm off Friday, but if that doesn't Monday and Tuesday are fairly open.

-Paul

**From:** Craig M. Steinmaus [mailto:craigs@berkeley.edu]  
**Sent:** Tuesday, November 03, 2015 9:33 PM  
**To:** Schlosser, Paul <Schlosser.Paul@epa.gov>  
**Subject:** Re: recent perchlorate paper (EHP)

Hi Paul

We should talk on the phone about this. I'm not totally sure what you are getting at, but definitely want to help any way I can. I have some time later this week or next week if you want to set up a call.

Craig

On Tue, Nov 3, 2015 at 8:31 AM, Schlosser, Paul <[Schlosser.Paul@epa.gov](mailto:Schlosser.Paul@epa.gov)> wrote:

Dr. Steinmaus,

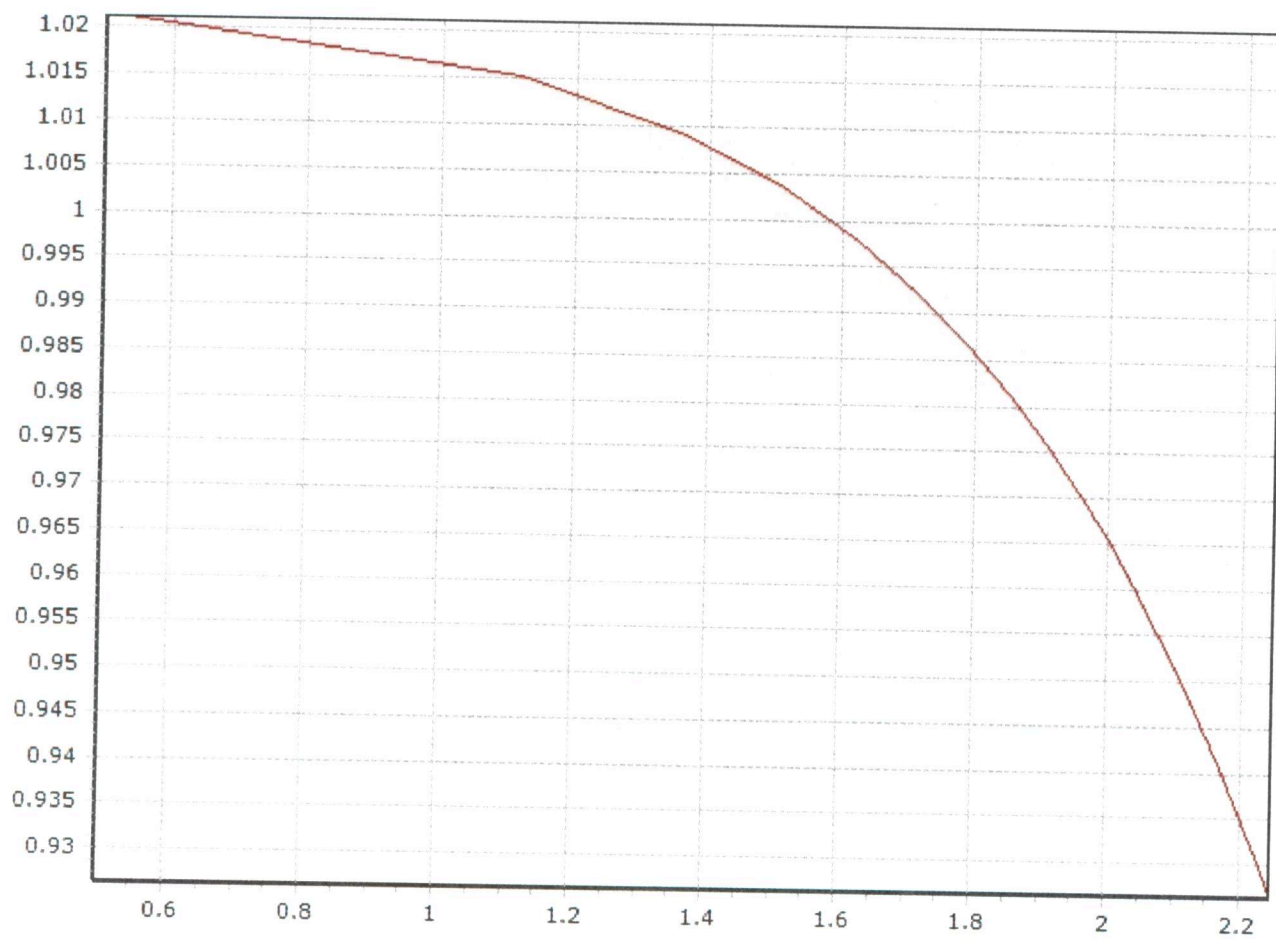
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In the analysis for your paper, did you also perform regressions for urinary T4/ft4 vs. absolute urinary perchlorate – without the log transformation? If not, would it be possible to obtain that, or even the underlying data? The data need not be identified; we'd just want the set of [urinary perchlorate, T4, ft4] for each sample.

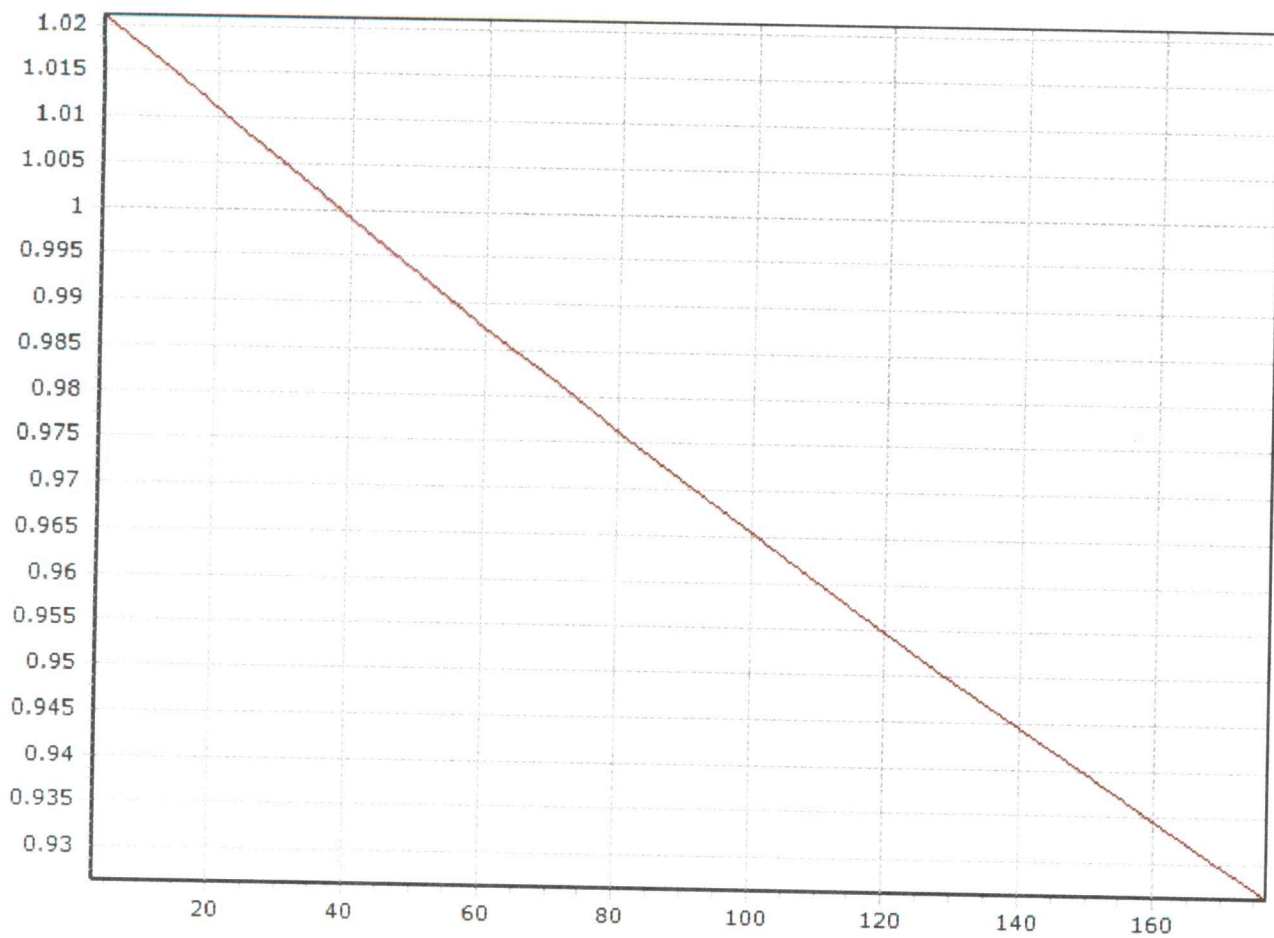
Thanks in advance,

-Paul Schlosser

Predicted ft4 (ng/dL) vs. log10(urinary perchlorate(ug/L))



ft4 vs. urinary perchlorate (ug/L)



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## Bohn, Brent

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**Sent:** Tuesday, November 24, 2015 10:58 AM  
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**To:** Schlosser, Paul <Schlosser.Paul@epa.gov>  
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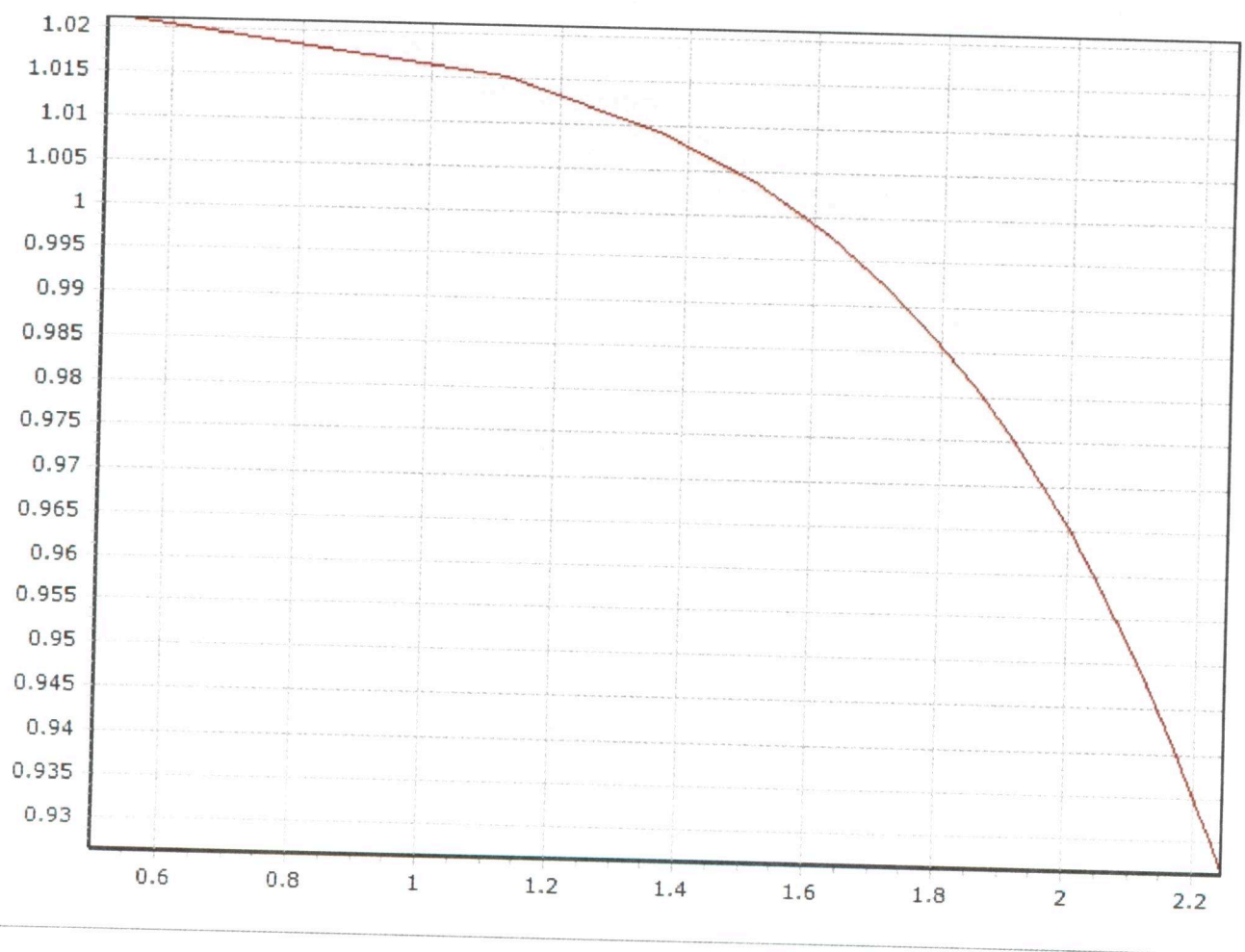
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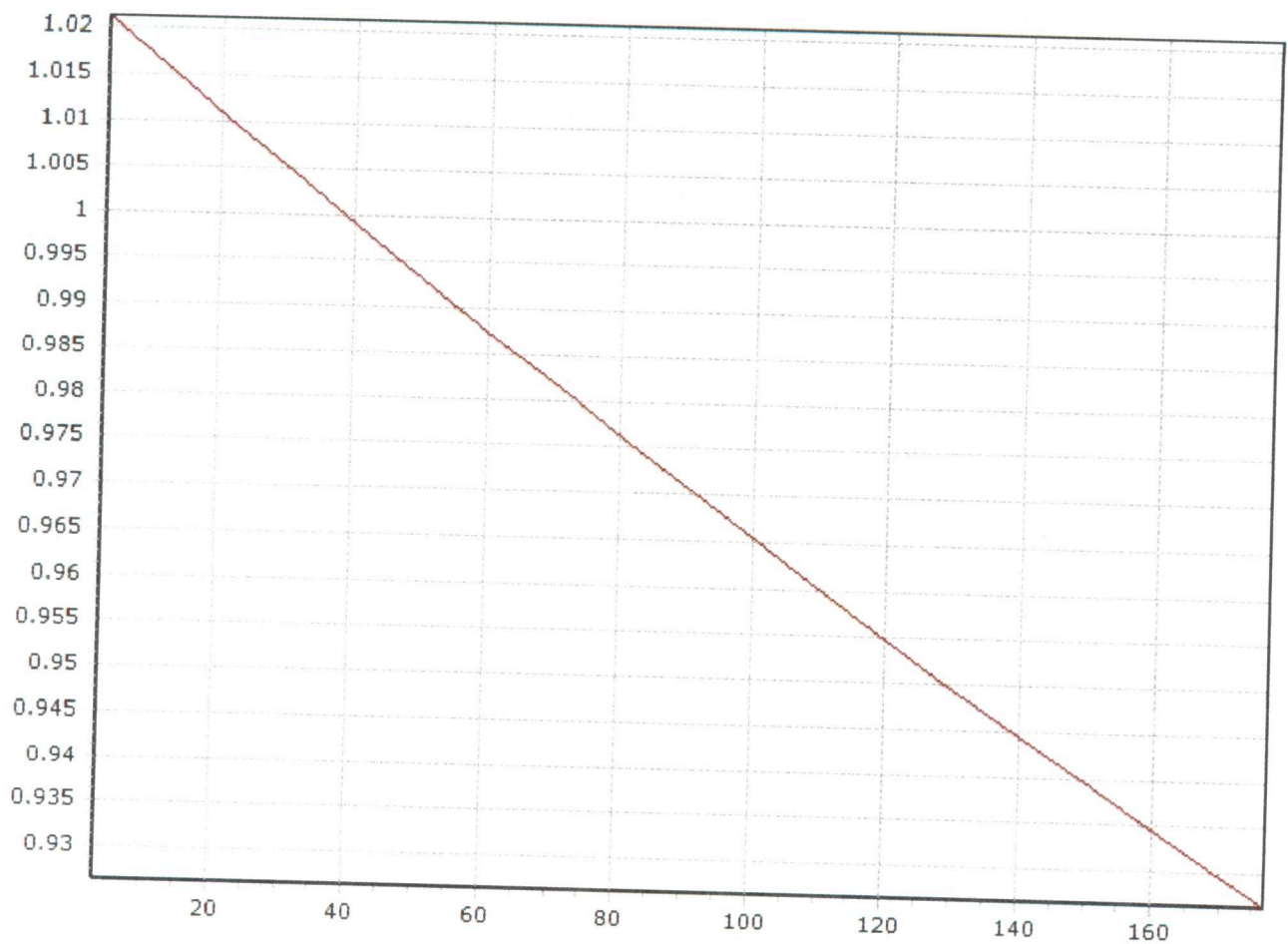
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-Paul Schlosser

Predicted ft4 (ng/dL) vs. log10(urinary perchlorate(ug/L))



ft4 vs. urinary perchlorate (ug/L)



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